

If you are using a printed copy of this procedure, and not the on-screen version, then you MUST make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.22.f AGS Chipmunk Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.22		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: _____ *Signature on File* _____
Collider-Accelerator Department Chairman Date

V. Castillo

4.120.22.f AGS Chipmunk Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head's Name (Print): _____ Life Number: _____

Safety Section Head's Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print): _____ Life Number: _____

RSC Member's Name (Sign): _____ Date: ____/____/____

1.1 Test of Chipmunk NMO 46 located in 913 D Fan House

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 46 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 46 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 46 | IN'LOCK |
| | RESET | NMO 46 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 46 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 46 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 46 | IN'LOCK |
| | RESET | NMO 46 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 46 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 46 located in 913 D Fan House | | |

1.2 Test of Chipmunk NMO 57 located in 913 C Fan House

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 57 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 57 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 57 | IN'LOCK |
| | RESET | NMO 57 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 57 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 57 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 57 | IN'LOCK |
| | RESET | NMO 57 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 57 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 57 located in 913 C Fan House | | |

1.3 Test of Chipmunk NMO 56 located in 913 B Fan House

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 56 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 56 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 56 | IN'LOCK |
| | RESET | NMO 56 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 56 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 56 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 56 | IN'LOCK |
| | RESET | NMO 56 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 56 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 56 located in 913 B Fan House | | |

1.4 Test of Chipmunk NMO 54 located on Siemens Rd West

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 54 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 54 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 54 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 54 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 54 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 54 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 54 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 54 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 54 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 54 located on Siemens Rd West | | |

1.5 Test of Chipmunk NMO 55 located on Siemens Rd East

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 55 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 55 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 55 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 55 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 55 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 55 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 55 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 55 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 55 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 55 located on Siemens Rd East | | |

1.6 Test of Chipmunk NMO 51 located at FEB Gate 2 East

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 51 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 51 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 51 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 51 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 51 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 51 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 51 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 51 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 51 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 51 located at FEB Gate 2 East | | |

1.7 Test of Chipmunk NMO 78 located at FEB Gate 2 West

- | | | | |
|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 78 | O.K. |
|
 | | | |
| | DISCON | NMO 78 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 78 | IN'LOCK |
| | RESET | NMO 78 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 78 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 78 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 78 | IN'LOCK |
| | RESET | NMO 78 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 78 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 78 located FEB Gate 2 West | | |

1.8 Test of Chipmunk NMO 22 located at North Shield Door

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 22 | O.K. |
|
 | | | |
| | DISCON | NMO 22 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 22 | IN'LOCK |
| | RESET | NMO 22 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 22 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 22 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 22 | IN'LOCK |
| | RESET | NMO 22 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 22 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 22 located at North Shield Door | | |

1.9 Test of Chipmunk NMO 24 located in D Line West Shield Top

- | | | | |
|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 24 | O.K. |
|
 | | | |
| | DISCON | NMO 24 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 24 | IN'LOCK |
| | RESET | NMO 24 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 24 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 24 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 24 | IN'LOCK |
| | RESET | NMO 24 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 24 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 24 located in D Line West Shield Top | | |

1.10 Test of Chipmunk NMO 48 located at South Shield Door

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 48 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 48 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 48 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 48 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 48 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 48 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 48 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 48 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 48 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 48 located at South Shield Door | | |

1.11 Test of Chipmunk NMO 31 located in South Wiring Tunnel

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 31 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 31 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 31 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 31 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 31 | OK |
|
 | | | |
| <input type="checkbox"/> | PRESS | Trip button on chipmunk NMO 31 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 31 | IN'LOCK |
| <input type="checkbox"/> | RESET | NMO 31 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 31 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 31 located in South Wiring Tunnel | | |

1.12 Test of Chipmunk NMO 19 located in Target Building East

- | | | | |
|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 19 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 19 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 19 | IN'LOCK |
| | RESET | NMO 19 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 19 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 19 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 19 | IN'LOCK |
| | RESET | NMO 19 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 19 | OK |
|
 | | | |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 19 located in Target Building East | | |

1.13 Test of Chipmunk NMO 49 located at North Conjunction Gate

- | | | | |
|--------------------------|---|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 49 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 49 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 49 | IN'LOCK |
| | RESET | NMO 49 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 49 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 49 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 49 | IN'LOCK |
| | RESET | NMO 49 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 49 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 49 located at North Conjunction Gate | | |

1.14 Test of Chipmunk NMO 77 located outside North Conjunction Gate

- | | | | |
|--------------------------|--|---|-----------------|
| <input type="checkbox"/> | VERIFY | Chipmunk calibration date [____/____/____] is | VALID |
| <input type="checkbox"/> | VERIFY | Chipmunk is in good physical condition and is | CHIRPING |
| <input type="checkbox"/> | VERIFY | MCR sees Opto monitor Chipmunk NMO 77 | O.K. |
|
 | | | |
| <input type="checkbox"/> | DISCON | NMO 77 from Security interface box for failsafe test | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 77 | IN'LOCK |
| | RESET | NMO 77 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 77 | OK |
|
 | | | |
| | PRESS | Trip button on chipmunk NMO 77 | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NMO 77 | IN'LOCK |
| | RESET | NMO 77 from MCR Opto monitor | |
| <input type="checkbox"/> | VERIFY | MCR sees NMO 77 | OK |
| <input type="checkbox"/> | Check for acceptance of Test Chipmunk NMO 77 located outside North Conjunction Gate | | |

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____